

Upgrading to the new Emacs org-mode exporter

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1 What this is

This documents my process of upgrading to the new org-mode exporter.
<http://orgmode.org/worg/exporters/ox-overview.html>

2 Setup

2.1 Some preliminary setup to make execution of these examples work

Add this stuff to your ~/.emacs.d/init.el or otherwise eval it.

See <http://orgmode.org/worg/org-contrib/babel/intro.html>.

```
(org-babel-do-load-languages
  'org-babel-load-languages '((sh . t) (lisp . t) ))
(setq org-export-babel-evaluate nil)
(setq org-confirm-babel-evaluate nil)
(setq org-babel-sh-command "bash")
(require 'ox-bibtex)
```

2.2 Emacs Version

```
(emacs-version)
```

```
GNU Emacs 24.3.50.1 (x86_64-pc-linux-gnu, GTK+ Version 3.4.2)
of 2013-04-21 on wani09, modified by Debian
```

2.3 Initial Org Version

```
(org-version)
```

```
7.9.3f
```

3 Installation

- See <http://orgmode.org/manual/Installation.html>

3.1 DONE Initial pull of latest org-mode

```
set -x -u
date
cd ~
mkdir -p ~/src
cd ~/src
set +x # errors OK
git clone git://orgmode.org/org-mode.git 2>&1
set -x
ls -r -d -1 $PWD/{*,.*}
```

3.2 DONE Pull latest updates to org-mode

```
set -x -u
date
cd ~/src/org-mode
set +x # errors OK
git pull 2>&1
set -x
ls -r -d -1 $PWD/{*,.*}
```

3.3 DONE Make Autoloads

```
set -x -u
date
cd ~/src/org-mode
make autoloads 2>&1
```

3.4 DONE Make sure we are using the correct version

Add this to your emacs setup (`~/ .emacs` or `~/ emacs.d/init.el`)

```
(add-to-list 'load-path "~/src/org-mode/lisp/")
(add-to-list 'load-path "~/src/org-mode/contrib/lisp/" t)
```

4 DONE Run a few tests

4.1 Do we have the new Org Version?

```
(org-version)
```

```
8.0.2
```

4.2 DONE Export to ASCII

Export current buffer to ASCII and open in other window

```
CTRL-C CTRL-E t A
```

4.3 DONE Export to HTML

Export current buffer to HTML and open in browser.

```
CTRL-C CTRL-E h o
```

5 DONE Export to pdf via L^AT_EX

Now we get a little crazy. Export to pdf via L^AT_EX.

5.1 DONE Install necessary packages

First, we'll have to install some stuff. I'm testing this on a an Ubuntu Linux system (12.04 Security Onion distro), so your mileage may vary if your on some other platform (Mac, Red-Hat, etc)

```
set -x -u
date

#
# Pay no attention to the man behind the curtain.
#
# this goo is needed to prompt for a sudo password
# while executing a sudo(1) command in bash under org-babel.
echo -e "#! /bin/bash\n/usr/bin/gksudo -p -m Password" > /tmp/gksudo-stdout
chmod +x /tmp/gksudo-stdout
SUDO_ASKPASS="/tmp/gksudo-stdout" sudo -A -s
#
```

```
# Thanks to Sylvain Rousseau: http://comments.gmane.org/gmane.emacs.orgmode/52979
#
# As you were. That's over. Now just do what you need to with sudo.
#
```

```
sudo id # just to make sure
```

```
sudo apt-get -y install texlive 2>&1
sudo apt-get -y install texlive-latex-extra 2>&1
sudo apt-get -y install texlive-bibtex-extra 2>&1
sudo apt-get -y install bibtex2html 2>&1
sudo apt-get -y install texlive-plain-extra 2>&1
sudo apt-get -y install xpdf 2>&1
```

6 DONE Export this document to pdf

6.1 DONE Export to PDF

Export current buffer to PDF and open

```
CTRL-C CTRL-E 1 o
```

6.2 If at first you don't succeed

Check the ***Messages*** buffer for errors. You might have to run `pdflatex` on the resulting tex file by hand to diagnose errors. Most likely problems are missing fonts or styles requiring more packages.

6.3 open the pdf file

```
CTRL-C CTRL-E 1 o
```

should have opened the pdf file, but maybe I have something configured wrong, so we open in emacs directly with

```
CTRL-X CTRL-F
```

7 Open Issues

7.1 Things not quite working in the new exporter

7.1.1 TODO Get citations and bibliography working in HTML and L^AT_EX

- Old exporter had org-exp-bibtex in contrib
- New exporter will have ox-bibtex.el
 - port by Nicolas Goaziou
 - I've done some testing. L^AT_EX works. HTML has a few issues.

7.2 Thing I might not understand in the new exporter

7.2.1 TODO Understand what happened to #+TEXT in the new exporter?

How do you specify text that is to be before the first section?

7.2.2 TODO Understand the template categories for export ?

I want to insert a default set of headers, I typed

CTRL-C CTRL-E #

and it asks me for a "Options Category?" What's that? "?" does not list options.

7.2.3 TODO Understand why PDF file links not opening the file

8 Feedback

8.1 Send me suggestions

If you send me suggestions, I may incorporate them in future versions.

8.2 Hack the source directly on github

Alternately, you can hack the .org source directly. The source to this document is available on github under <https://github.com/eludom/HOWTO>